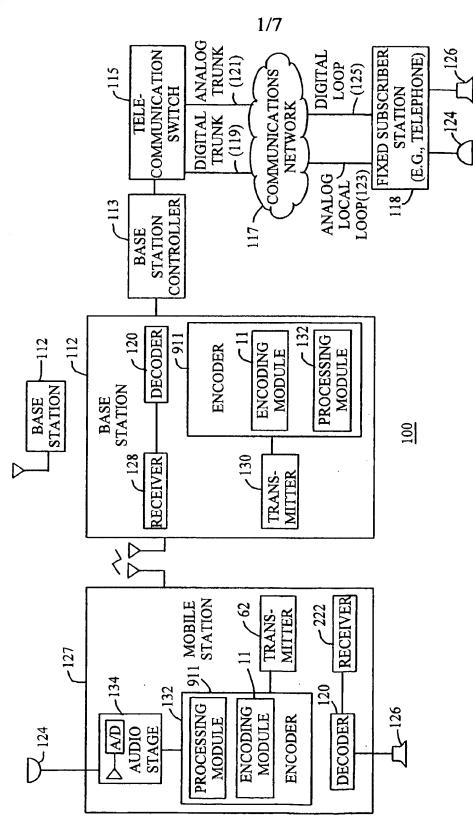
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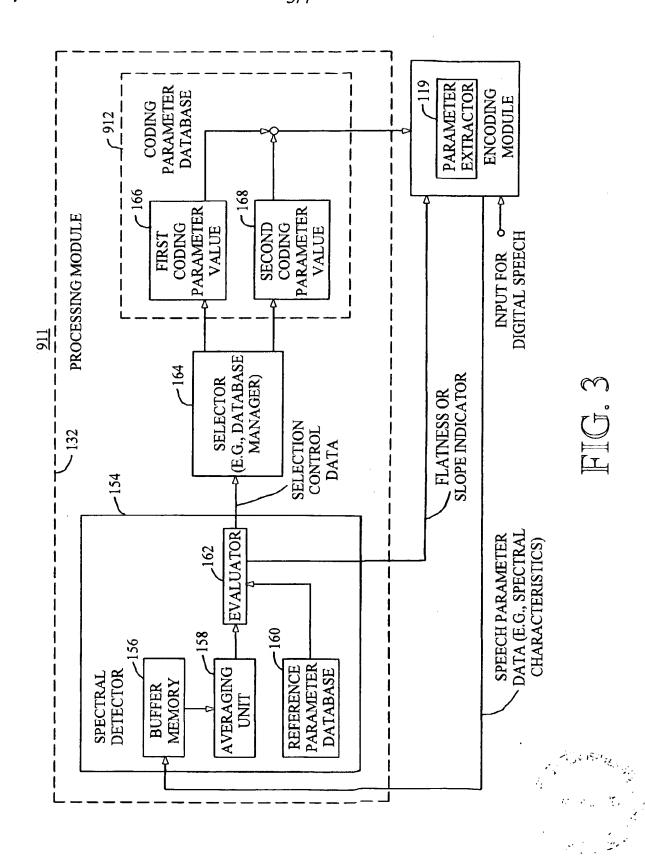
Patent Application for:
Secon Of Coding Parameters Based
On Spectral Content Of The Speech Signal
Inventor: Yang Gao and Huan-yu Su
Serial No. 09/783,822



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Patent Application for:
ction Of Coding Parameters Based
pectral Content Of The Speech Signal
Inventor: Yang Gao and Huan-yu Su
Serial No. 09/783,822 O.G. FIG APPROVED BY DRAFTSMAN 2/7 HIGHER FREQUENCY ILLUSTRATIVE SPECTRAL RESPONSE LOWER FREQUENCY LOWER AMPLITUDE HIGHER AMPLITUDE -HIGHER FREQUENCY FREQUENCY (E.G., IN KHZ) FIG. 2A ILLUSTRATIVE BANDWIDTH SPECTRAL RESPONSE MIRS FREQUENCY LOWER AMPLITUDE -AMPLITUDE AMPLITUDE VOICE SIGNAL HIGHER LOWER

3/7



APPROVED	O.G. FIG		
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Spectral Content Of The Speech Signal
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Serial No. 09/783,822

4/7	√ S10		
ASSUME THE SPECTRAL RESPONSE OF A SPEECH SIGNAL IS SLOPE			
ACCORDANCE WITH A DEFINED CHARACTERISTIC SLOPE (E.G., AN MIRS			
SIGNAL RESPONSE).			
<b>V</b>	CS12		
ACCUMULATE SAMPLES (E.G., FRAMES) OF THE SPEECH SIGNAL O	VER AT		
LEAST A MINIMUM SAMPLING DURATION (E.G., 2-4 SECONDS	<u>5).                                    </u>		
<u> </u>	S14		
AVERAGE THE ACCUMULATED SAMPLES ASSOCIATED WITH THE I			
SAMPLING DURATION TO OBTAIN AN AVERAGED REPRESENTATIVE	E SAMPLE.		
<b>↓</b>	CS16		
COMPARE THE AVERAGED REPRESENTATIVE SAMPLE TO REFEREN	t t		
IN A REFERENCE DATABASE OF SPECTRAL CHARACTERISTICS, INCLUDING			
AT LEAST ONE OF THE DEFINED CHARACTERISTIC SLOPE AND A SPECTRAL RESPONSE.	AFLAI		
SI ECHATE RESIGNATION.			
DOES A SLOPE OF THE REPRESENTATIVE	∠ S18		
SAMPLE OF THE SPEECH SIGNAL CONFORM TO THE DEFINED			
CHARACTERISTIC SLOPE AS DETERMINED			
BY THE COMPARISION?			
YES S20 NO			
SELECT AT LEAST ONE FIRST CODING			
PARAMETER VALUE ASSOCIATED WITH			
THE DEFINED CHARACTERISTIC SLOPE.			
√ S21			
APPLY THE AT LEAST ONE FIRST			
CODING PARAMETER VALUE TO CODING OF THE SPEECH SIGNAL.			
CODING OF THE STEECH SIGNAL.			
IS THE SPECTRAL RESPONSE OF THE			
REPRESENTATIVE SAMPLE OF THE SPEECH SIGNAL NO			
GENERALLY FLAT AS DETERMINED BY THE			
COMPARISION?	554		
1123	S24		
SELECT AT LEAST ONE SECOND CODING APPLY THE AT LEAST ONE			
PARAMETER VALUE ASSOCIATED WITH CODING PARAMETER VALUE THE FLAT SPECTRAL RESPONSE.			
CODING OF THE STEECH	S26		
END [2]			

FIG. 4

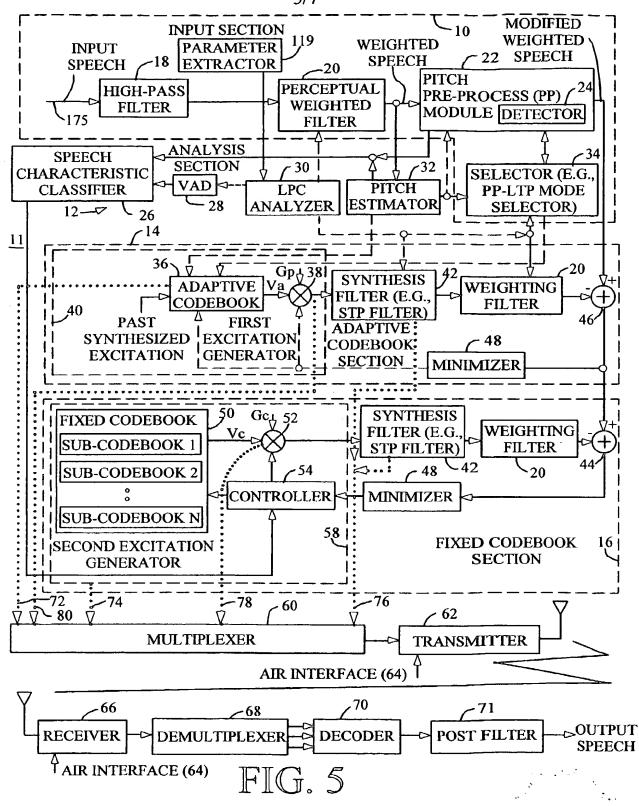
AF PROVED O.G. FIG

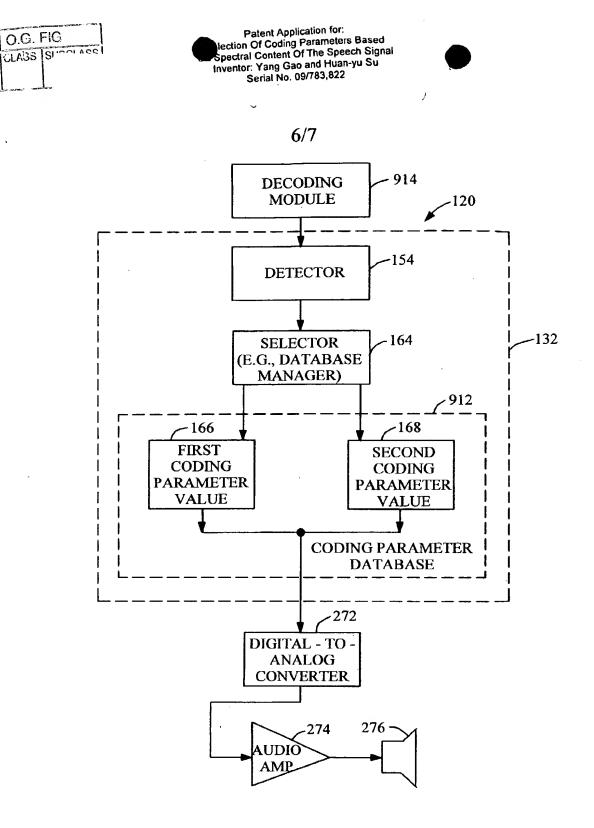
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5/7





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FIG. 6

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7/7

